

CLAIMS

1. A data matching method comprising:
 - a configuration component accumulating step
accumulating a configuration component generated by
5 decomposing a measuring quantity of an object by a
predetermined method and a plurality of states of said
object each of which is corresponding to said
configuration component;
 - a component decomposing step decomposing a
10 measuring quantity of a matching target object into
said configuration component at a predetermined state
of said plurality of states;
 - a parameter conversion step converting a
parameter corresponding to said configuration
15 component of said predetermined state into a
converted parameter of a second state of said
plurality of states different from said predetermined
state;
 - a state change data generating step
20 generating a state change data by adding a
predetermined state change to a data of said matching
target object by using said configuration component
accumulated in said configuration component
accumulating step and said converted parameter; and
 - 25 a matching step matching said state change
data and a previously accumulated matching data.

2. The data matching method according to claim 1, wherein said predetermined method is a principal component analysis.

5 3. A data matching method comprising:
 a configuration component accumulating step
 accumulating a configuration component generated by
 decomposing a measuring quantity of an object by a
 predetermined method and a plurality of states of said
10 object each of which is corresponding to said
 configuration component;
 a connecting step connecting a parameter
 corresponding to said configuration component at a
 first state of said plurality of states and a
15 parameter corresponding to said configuration
 component at a second state through a conversion using
 a learning;
 a state change data generating step
 generating a state change data of said second state
20 by converting a data of said matching target object
 at said first state through a conversion using said
 learning; and
 a matching step matching said state change
 data and a matching data accumulated in advance.

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4. The data matching method according to any of claims 1 to 3, wherein the data of said matching target

is a biometrics data.

5. The data matching method according to any of
claims 1 to 4, wherein each of said plurality of states
5 corresponds to a state at a different time through
a course of aging.

6. The data matching method according to any of
claims 1 to 5, wherein said measuring quantity is an
10 image of a face.

7. A data matching apparatus comprising:
 a configuration component accumulating unit
configured to accumulate a configuration component
15 generated by decomposing a measuring quantity of an
object by a predetermined method and a plurality of
states of said object each of which is corresponding
to said configuration component;

 a component decomposing unit configured to
20 decompose a measuring quantity of a matching target
object into said configuration component at a
predetermined state of said plurality of states;

 a parameter conversing unit configured to
converting a parameter corresponding to said
25 configuration component of said predetermined state
into a converted parameter of a second state of said
plurality of states different from said predetermined

state;

 a state change data generating unit
configured to generate a state change data by adding
a predetermined state change to a data of said
5 matching target object by using said configuration
component accumulated in said configuration
component accumulating step and said converted
parameter; and

 a matching unit configured to match said state
10 change data and a previously accumulated matching
data.

8. The data matching apparatus according to
claim 7, wherein said predetermined method is a
15 principal component analysis.

9. A data matching apparatus comprising:

 a configuration component accumulating unit
configured to accumulate a configuration component
20 generated by decomposing a measuring quantity of an
object by a predetermined method and a plurality of
states of said object each of which is corresponding
to said configuration component;

 a connecting unit configured to connect a
25 parameter corresponding to said configuration
component at a first state of said plurality of states
and a parameter corresponding to said configuration

component at a second state through a conversion using
a learning;

a state change data generating unit
configured to generate a state change data of said
5 second state by converting a data of said matching
target object at said first state through a conversion
using said learning; and

a matching unit configured to match said state
change data and a matching data accumulated in
10 advance.

10. The data matching apparatus according to any
of claims 7 to 9, wherein the data of said matching
target is a biometrics data.

15 11. The data matching apparatus according to any
of claims 7 to 10, wherein each of said plurality of
states corresponds to a state at a different time
through a course of aging.

20 12. The data matching apparatus according to any
of claims 7 to 11, wherein said measuring quantity
is an image of a face.

25 13. A data matching program for instructing a
computer to execute a method comprising:

a configuration component accumulating step

accumulating a configuration component generated by
decomposing a measuring quantity of an object by a
predetermined method and a plurality of states of said
object each of which is corresponding to said
5 configuration component;

a component decomposing step decomposing a
measuring quantity of a matching target object into
said configuration component at a predetermined state
of said plurality of states;

10 a parameter conversion step converting a
parameter corresponding to said configuration
component of said predetermined state into a
converted parameter of a second state of said
plurality of states different from said predetermined
15 state;

a state change data generating step
generating a state change data by adding a
predetermined state change to a data of said matching
target object by using said configuration component
20 accumulated in said configuration component
accumulating step and said converted parameter; and

a matching step matching said state change
data and a previously accumulated matching data.

25 14. A data matching program for instructing a
computer to execute a method comprising:

a configuration component accumulating step

accumulating a configuration component generated by
decomposing a measuring quantity of an object by a
predetermined method and a plurality of states of said
object each of which is corresponding to said
5 configuration component;

a connecting step connecting a parameter
corresponding to said configuration component at a
first state of said plurality of states and a
parameter corresponding to said configuration
10 component at a second state through a conversion using
a learning;

a state change data generating step
generating a state change data of said second state
by converting a data of said matching target object
15 at said first state through a conversion using said
learning; and

a matching step matching said state change
data and a matching data accumulated in advance.